

1 General Data

Use

C-CRETE HF is used as a non-slip, coloured mortar coating for industrial floors with high mechanical and hygienic demands. C-CRETE HF floors are capable of withstanding extreme stress, changes of temperature, and also exhibit a good wear resistance and an outstanding resistance to chemicals.

Areas of use are heavily used commercial surfaces, slaughterhouses, wet processing areas of the food industry, food and beverage storage areas, tobacco processing plants, production plants for printed circuits, chemical production plants, pharmaceutical production plants and others.

Product Description

C-CRETE HF is a 4-component, slip-resistant mortar coating of high-grade polyurethane resin. The product exhibits a very high level of resistance against a large number of acids, solvents and other chemicals as well as a high abrasion resistance combined with excellent hygienic properties.

CREATIVE Systems

C-CRETE HF serves as the mortar for the CREATIVE system:

CREATIVE *heavy duty*

Maintenance

In order to retain the qualities of the PU mortar coating for a long time we recommend regular maintenance. The floor can be steam-cleaned.

Note

The characteristic data are approximate values calculated by us. They do not represent warranted characteristics. Consequently, no liability claims of any kind may be derived from the Technical Data Sheet.

(A) Technical Data

Liquid product (A+B+C+D)

1. Density (20°C)	1.9 g/cm ³
2. Packaging size (3-component container)	31.34 kg
3. Colours	see C-CRETE leaflet
4. Shelf life / storage	12 months at 15–20°C

(B) Technical Data

Cured material

1. Bending tensile strength (DIN EN 196 / ASTM C 190)	16 N/mm ²
2. Compressive strength (DIN EN 196 / ASTM C 109)	65 N/mm ²
3. Tensile strength (ISO R 527 / ASTM D638)	7 N/mm ²
4. Adhesive pull strength (DIN ISO 4624)	> 2.5 N/mm ² (crack in concrete)
5. Abrasion resistance (DIN 53754 / ASTM D 1044)	950 mg/1000 cycles (Taber H22)
6. Heat expansion coefficient (DIN EN 1770 / ASTM C531)	2.1 x 10 ⁻⁵ /°C
7. Heat conductivity (DIN 52612 / BS 874)	0.84 W/m °C
8. Water absorption (CP.BM 2/67/2)	0 ml
9. Temperature resistance 8 mm dry: wet:	120°C 100°C

Manufacturer:

Creative Analysis Sdn Bhd, No 12, Jalan Bateri 34/5, Bukit kemuning Light Industrial Park, 40470 Shah Alam, Selangor , Malaysia
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2 Processing Instructions

Substrate Preparation

C-CRETE HF is applied onto a substrate primed with CEP-PRIMER 250. The substrate must be clean and free of dust and loose particles. All traces of contaminants such as oils, fats, greases, paint residues, chemicals, algae and laitance should be removed.

Processing

The product is supplied in proportionate 3-component containers. Only full containers may be mixed. After stirring the A-component the B-component is added and mixed for about 30 seconds using an electric stirrer (spiral stirrer). After adding the filler (component C) the mixture is stirred homogeneous for 1–2 minutes. The product is applied using a screed box, smoothed with a trowel and then rolled with a short pile roller. Instead of a screed box the material can also be applied with an aluminium slat or a trowel. The material must be smoothed and rolled in any case.

Reworking

The coating must always be sanded carefully before reworking.

Health & Safety

Appropriate health and safety advice can be found in the Material Safety Data Sheets. Users are advised to wear gloves and eye protection when mixing or applying C-CRETE HF.

Possibilities for layering and detailed information about the application of CREATIVE products can be found in the CREATIVE Technical Guide.

(C) Technical Data

Liquid mixture (A+B+C+D)

1.	Processing time (20°C)	approx. 10–15 min.
2.	Processing temperature	12–20°C (min. 3°C above dew point)
3.	Material temperature	15–25 °C
4.	Material consumption depending on substrate	2000 g/m ² per mm layer thickness
5.	Can be walked on (20 °C)	after 8–12 hours
6.	Fully capable of withstanding stress mechanical (20°C) chemical (20°C)	after 2 days after 28 days

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